FOR MYSORE STATE

-1-52-

Public Works (1953) Department.

Ms. SERIES.

G.O. NO. 576

Dated 18th February 1953

closed
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[Despatch Abstract.]

Ports - Improvements to Mangalore Port - Estimate for surveying and levelling operations - Sanctioned.

PUBLIC WORKS DEPARTMENT

From
Sri T.S.Venkatarama Ayyar, B.E., M.I.E.(Ind.), I.S.E., Chief Engineer, PWD., (General & Buildings), Chepauk, Madras -5.

To
The Secretary to Government, Public Works Department, Madras.

Letter No.9811 Wks/52-2 dated 21-1-1953.

Sir,

Sub: PORTS - Improvements to Mangalore Port Estimate for surveying and levelling operations.

Ref: Government Public Works Department Memo. No.3036 F/49-20 dated 2-5-1951.

With reference to the Government Memo. cited above, I forward herewith an estimate amounting to Rs.21,000/- received from the Superintending Engineer, Coimbatore Circle for surveying, levelling and gauging operations connected with the investigations for Mangalore Port improvement. The estimate provides for the incidental charges for taking cross sections of Netravati and Gurupur rivers, for conducting silt discharge and surface current observations, and for determining wave characteristics and tidal chart, which are required for conducting Model experiment for improvement to Mangalore Port.

P.T.O.

2. A part of the operations were conducted during January 1952 to May 1952, and it was resumed again from from October 1952. Considering the urgency of the work and with a view to complete it by February 1953, the .. Superintending Engineer, Coimbatore Circle has also permitted the Executive Engineer, South Kanara Division to proceed with the work in anticipation of Government's approval to the estimate.

3. The report to accompany the estimate explains clearly the nature of operations to be conducted and various provisions made in the estimate.

4. In view of the urgency of the work (which is now in progress) I request that, the administrative approval of the Government may please be obtained urgently to the estimate amounting to Rs.21,000/- and communicated to me at an early date for taking further action in the matter. I also request that the action of the Superintending Engineer, Coimbatore .. Circle in having permitted the Executive Engineer to proceed with the work in anticipation of Government's approval to the estimate may please be ratified.

for Chief Engineer, PWD., (Gl. & Bldgs.)

Encl: 1 estimate amounting to Rs.21,000/- in duplicate.

VKS/23-1-53

Report to accompany the estimate for surveying levelling and gauging operations in connection with investigations for Mangalore Port improvements.

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Amount of Estimate Rs.21,000/-.

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In Govt(PWD) Memo No.3036 F/49-20 PW dated 2-5-51 the government have directed that the data required for model experiment for improvements to Mangalore Port should be collected by the P.W.D. The accompanying estimate provides for the incidental charges to be incurred for taking cross sections of Netravati and Gurupur rivers for conducting silt discharge and surface current observations and for determining wave characteristics and tidal chart. 6 maistries for the efficient help to section officers in this work and 9 gauge readers for day and night bbservations of the 6 gauges fixed in the two rivers have been provided. Provisions have been made for hiring country boats for river cross section work, motor launch for observation at the bar and for petrol expenses for an outboard motor boat. Provisions have also been made for fixing Bench Mark stones and distance ~~staves~~ none on the banks of Netravati and Gurupur rivers as instructed in Superintending Engineer's memo No.345 SR dated 15-4-52. Lump sum has been allotted for making thatched sheds for gauge readers and for fixing gauge in the sea.

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Data sheet to accompany the estimate for Surveying, levelling and gauging operations in connection with investigations for Mangalore port improvement.

Quantity.	Description of work.	Rate.	Per.	Amount.	Total.
	Item No.6.				
	Sub data for concrete hard broken stone 1½" size in cement mortar 1:4:10.				
	1. Cost of jelly 1½" size at site for 100 cft.				
100 cft.	Cost of broken stone as per S.I.No.33 C.	23-0-0	100 cft.	23-0-0	
"	Lead 10 miles by road.	49-3-6	,,	49-3-6	
"	Lead 2 miles by boat.	7-0-6	,,	7-0-6	
"	Lead 1/2 furlong by head.	1-15-0	,,	1-15-0	
	Total.			81-3-0	81-3-0
	2. Sand - cost at site for 100 cft.				
100 cft.	Cost of sand as per S.I.No.36 A.	2-8-0	100 cft.	2-8-0	
,,	Lead 5 miles by boat.	14-1-0	,,	14-1-0	
,,	Lead 1/2 furlong by head.	1-9-0	,,	1-9-0	
	Total.			18-2-0	18-2-0
	3. Cost of cement at site for 1 ton.				
1 Ton.	Cost of cement I.S.D. rate.	78-8-0	1 ton.	78-8-0	
	Sales tax.	1-5-10	,,	1-5-8	
,,	Railway freight from Madukarai.	0-8-10	Maund.	15-0-6	
,,	Loading and uloading charges.	1-2-5	1 ton.	1-2-5	
,,	Godown charges.	3-0-0	,,	3-0-0	
,,	Lead 10 miles by road.	12-4-10	,,	12-4-10	
,,	Lead 2 miles by boat.	1-12-0	,,	1-12-0	
,,	Lead 1/2 furlong by head.	0-6-3	,,	0-6-3	
	Total.			113-5-8	113-6-0
	4. Cost of Cement Mortar 1:4 - 100 cft.				
100 cft.	Sand at site.	18-2-0	100 cft.	18-2-0	
25 cft.	Cement at site.	113-6-0	1 ton.	113-6-0	
100 cft.	Mixing charges.	4-8-0	100 cft.	4-8-0	
	Total.			136-0-0	136-0-0

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1.	2.	3.	4.	5.	6.
	Concrete Hard broken stone 1½" size in cement mortar 1:4:19 similar to M.D.S.S.No.28 - cost for 100 cft.:-				
100 cft.	Hard broken stone. 1½" size at site.	81-3-0	100 cft.	81-3-0	
49 cft.	Cement mortar 1:4.	136-0-0	,,	54-6-5	
1/2 No.	Mason 1st class.	3-2-0	Each.	1-9-0	
5 Nos.	Man Mazdoors.	2-0-0	,,	10-0-0	
4 Nos.	Woman Mazdoors.	1-0-0	,,	4-0-0	
	Sundries.			1-3.6 1-13-7	
	Total.			153-0-0	153-0-0
	Item No.7. Providing and fixing Bench Mark stones ~~xxxxx~~ 2'-6" x 0'-9" x 0'-9" - Cost for 1 No.				
1 No.	Cost of granite stone 2'-6" x 0'-9" x 0'-9" as per S.I.No. 31.	4-0-0	Each.	4-0-0	
14 cft.	Lead 10 miles by road.	0-9-5	1 cft.	0-13-3	
,,	Lead 2 miles by boat.	0-1-4	,,	0-1-11	
,,	Lead 1/2 furlong by head.	0-0-4	,,	0-0-6	
L.S.	Fixing charges		L.S.	1-8-0	
Average 6 letters.	Painting charges as per S.I. No.254	0-1-0		0-6-0	
	Sundries.			0-2-4	
	Total.			7-0-0	7-0-0
	Item No.8. Providing and fixing distance stones of size 2'-0" x 0'-9" x 0'-6" - cost for 1 No.				
1 No.	Cost of granite stone nearest size as per S.I.No.30.	3-12-0	1 No.	3-12-0	
0.75 cft.	Lead 10 miles by road.	0--9-5	1 cft.	0--7-1	
,,	Lead 2 miles by boat.	0--1-4	,,	0--1-0	
,,	Lead 1/2 furlong by head.	0--0-4	,,	0--0-3	
L.S.	Fixing charges.		L.S.	1--8-0	
Average 10 letters.	Painting charges as per S.I.No.254.	0--1--0	Each letter	0-10-0	
	Sundries.			0--1-8	
	Total.			6--8-0	6-8-0

Certified that the leads are correct.

For Superintending Engineer,
Coimbatore Circle.

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Estimate - Detailed Measurement Sheet.

Name of work: Surveying levelling and gauging operations in connection with investigation for Mangalore Port improvements.

Amount of Estimate Rs.21,000/-.

Details of work.	Number.	Measurement in feet. L.	B.	D.	Area of contents.	Total quantity of each description of work.
Rs.						
1.Maistries @/45/- Per month for six section officers one for each for eighteen months.		6 x 18			108 months.	108 months
2.Gauge readers @ Rs.30/- per month 2 Nos. for each of the 3 gauges near the harbour and one for each of the other 3 gauges for 18 months.		(3 x 2 plus 3 x 1) x 18			162 months.	162 months.
3.Fixing enamelled and painted gauges 8 ft. long 2 Nos. at each of the 3 sites near the harbour and 5 Nos. at each of the other 3 sites in the higher portions of the river.		(3 x 2 plus 5 x 3)			21 Nos.	21 Nos.
4.Thatched sheds for gauge readers for taking continuous gauge reading at an interval of 1 hour.					3 Nos.	3 Nos.
5.Boat and boatmen for taking river cross sections one boat for each day for 10 months January 52 to May 52 and October 52 to February 53.		303 days or say 300 days.				300 days.
6.Concrete hard broken stone in cement mortar 1:4:10 for						
a) foundation for fixing bench mark stones near each of the six gauges.	6 Nos.	3'-0"	3'-0"	3'-0",	162 cft.	
b) foundation for Bench Mark stones at one mile distance along the banks both Netravati and Gurupur rivers upto the last two sections.	24	3'-0"	3'-0"	3'-0"	648 cft.	
c) Foundation for fixing distance stones at every 1000 ft. along both sides of the two rivers upto the last cross section.	280	2'-0"	2'-0"	2'-0"	2240	
Sundries.					50	
Total .					3100	3100 cft.
7.Bench mark stones of granite 2'-6" x 0'-9" x 0'-9" at 1 mile distance on the banks of Netravati and Gurupur rivers and near the six gauges.		(2 x 12 plus 6)			30 Nos.	30 Nos.
8.Distance stones of granite 2'-0" x 0'-9" x 0'-6" @ every 1000 ft. both sides of the two rivers upto the last cross section.		(2 x 2 x 70)			280 Nos.	280 Nos.
9.Petrol expenses for the motorboat.						L.S.
10.Hire charges for motor launch for County boat 91						L.S.

11. Provision for flags, floats, ropes, tins, 1 labour for helping Section Officers for collecting bed samples, conducting current meter and float observations etc.	L.S.
12. Providing and fixing gauge in the sea for determining wave characteristics.	L.S.
13. Conveyance charges.	L.S.
14. Add for variation in D.A. of maistries.	L.S.
15. Unforeseen works.	L.S.

Estimate form - Abstract.

Surveying levelling and gauging operations in connection with investigation for Mangalore Port improvements.

No.	Quantity.	Description of work.	Rate.	Per.	Amount.
1.	108 months. (6x 18)	Maistries for survey work for six section Officers one for each.	45/- ~~45~~	1 month.	4860
2.	162 months. (9 x 18)	Gauge readers for taking gauge readings for the 6 gauges.	30/-	,,	4860
3.	21 Nos.	Providing and fixing enamelled and painted gauges 8 ft. long at the six sites specified by the Director of C.W. & P.R. Station Poona.	50/-	Each.	1050
4.	3 Nos.	Thatched sheds for gauge readers for taking continuous gauge readings at an interval of 1 hour.	100/-	Each.	300
5.	300 days.	Boat and Boatmen for taking river cross sections.	3	1 day.	900
6.	3100 cft.	Concrete hard broken stone in cement mortar 1:4:10 for fixing Bench Mark stones and distance stones on the river banks.	156/- ~~153/-~~	100 cft.	4836 ~~4743~~
7.	30 Nos.	Providing and fixing Bench Mark stones 2'-6" x 0'-9" x 0'-9" at one mile distance on the banks of Netravati and Gurpur rivers and near 6 gauges inclusive of inseription and painting charges.	7/-	Each.	210
8.	280Nos.	Providing and fixing distance stones of granite 2'-0" x 0'-9" x 0'-6" at every 1000 feet distance on both sides of the two rivers upto the last cross section inclusive of painting and inscription charges.	6-8-0	,,	1820
9.	L.S.	Petrol expenses for the outboard motor boat.		L.S.	500
10.	L.S.	Hire charges for Country boat Motor launch for observations at the ~~sea~~ bar.		L.S.	500
11.	L.S.	Provision for flags, floats, ropes, tins, labour for helping Section Officers for collecting bed samples conducting current meter and float observations etc.		L.S.	300
12.	L.S.	Providing and fixing gauge in the sea for determining wave characteristics.		L.S.	200
13.	L.S.	Conveyance charge.		L.S.	157 ~~200~~
14.	L.S.	Add for variation in D.A. of maistries.		L.S.	107
15.	L.S.	Unforeseen works.		L.S.	400 ~~450~~
		Total.			21,000

Rupees twenty one thousand only.

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For Superintending Engineer
Coimbatore Circle, Coimbatore

CIRCLE: C O I M B A T O R E.

DIVISION: SOUTH KANARA.

DISTRICT: SOUTH KANARA.

TALUK: MANGALORE

Financial head:-

Budget head:-

Departmental head:-

Main head:-

Sub head:-

Project of which the works forms part.

Section:

Name of work: Surveying, levelling and Gauging operations in connection with investigations for Mangalore Port Improvement.

Amount of Estimate: Rs. 21,000

To be carried out by: P.W.D.

G. no 9499-F/53

Subs:- Ports - Improvements to Mangalore Port
Estimate for surveying & levelling operations - Sanctioned.

Ref:- ~~From the~~ Memo no 30367/49-2dd 2-5-51
From the C.E. P.W.D (G&B) no 98/1Wks/52-2
dt 21-1-53.

52/11/2 Cro Hs. 576 dt 11-2-53.

The Government hereby sanction the estimate amounting to Rs 21,000/- (Rupees twenty one thousand only) submitted by the C.E. P.W.D (G&B) for surveying ~~and~~ levelling and gauging operations connected with the investigations for carrying out improvements to the Port of Mangalore.

2 The expenditure is debitable to the Minor Ports Fund.

3 The action of the S.E, Coimbatore Circle in having permitted the Executive Engineer to proceed with the work in anticipation of the sanction of Govt to the estimate is ratified.

6/2/53. 10.2.53

The necessity for the work is explained in the report accompanying the estimate at p 3 of. In view of the urgency of the work the S.E Coimbatore Circle instructed the Ex Engr to proceed with the work in anticipation of sanction of Govt. The estimate may be sanctioned. The draft above is for approval. (It may be mentioned in this connection that an estimate amounting to Rs 84,525/- has been sanctioned for conducting model experiments at Ponnani)

6/2/53. 10.2.53

To
The C.E. P.W.D (G&B)
with estimates.

Copy to: S.P.D.

Copy to the Examr of L.F. Accts. (with Copy of Dft 221 Cr)

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Sanct. 2 Cr

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(Co No 19 Pw 6-2-53)